AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A conductive ink composition, comprising a carboxylic acid- or anhydride-functional aromatic vinyl polymer, ~~and~~ a conductive particulate material, and a ~~selected from the group consisting of conductive particulate materials,~~ conductive flake material ~~materials, and combinations thereof~~.

2. (original) A conductive ink composition according to claim 1, comprising a conductive flake material that has an aspect ratio of at least about 5:1.

3. (original) A conductive ink composition according to claim 1, wherein the aromatic vinyl polymer is a copolymer of styrene.

4. (original) A conductive ink composition according to claim 1, wherein the aromatic vinyl polymer is a copolymer of maleic acid or maleic anhydride.

5. (original) A conductive ink composition according to claim 1, wherein the ink composition is aqueous.

6. (original) A conductive ink composition according to claim 1, wherein the aromatic vinyl polymer has an acid number from about 0.5 to about 100 mg KOH/g.

7. (Currently amended) A conductive ink composition according to claim 1, wherein the conductive particulate material consists essentially of a member selected from the group consisting of conductive metal oxide materials and combinations thereof.

8. (original) A conductive ink composition according to claim 1, comprising a member selected from the group consisting of carbon black, graphite, and combinations thereof.

9. (original) A conductive ink composition according to claim 8, comprising carbon black, wherein the aromatic vinyl polymer has an acid number from about 0.5 to about 15 mg KOH/g.

10. (original) A conductive ink composition according to claim 1, comprising at least one further polymer.

11. (original) A conductive ink composition according to claim 8, wherein the further polymer comprises a member selected from the group consisting of acrylic polymers, cellulosic polymers, poly(vinyl butyral) polymers, maleic-modified rosin esters, polyamides, styrene-allyl alcohol copolymer, and combinations thereof.

12. (currently amended) A conductive ink composition according to claim 1, wherein the conductive particulate material comprises a member selected from the group consisting of carbon black, conductive metal oxide particulate materials, and combinations thereof.

13. (Currently amended) A conductive ink composition according to claim 1, wherein the conductive particulate material comprises a particulate material coated with a member selected from the group consisting of antimony tin oxide, indium tin oxide, and combinations thereof.

14. (Currently amended) A conductive ink composition according to claim 1, wherein the conductive particulate material comprises a member selected from the group consisting of conductive metal particulate materials, conductive metal alloy particulate materials, particulate materials coated with conductive metals, particulate materials coated with conductive metal alloys, and combinations thereof, and further wherein the conductive flake material comprises a member selected from the group consisting of conductive metal flake materials, conductive metal alloy flake materials, flake materials coated with conductive metals, flake materials coated with conductive metal alloys, and combinations thereof.

15. (currently amended) A conductive ink composition according to claim 1, wherein the conductive particulate material comprises a member selected from the group consisting of metallic silver powders, metallic copper powders, bronze powders, particulate materials coated with metallic silver, particulate materials coated with metallic copper, particulate materials coated with bronze, and combinations thereof, and further wherein the conductive flake material comprises a member selected from the group consisting of metallic silver flakes, metallic copper flakes, bronze flakes, ~~particulate and~~ flake materials coated with metallic silver, ~~particulate and~~ flake materials coated with metallic copper, ~~particulate and~~ flake materials coated with bronze, and combinations thereof.

16. (original) A conductive ink composition according to claim 1, comprising a conductive flake material that has an aspect ratio of at least about 10:1.

17. (original) A conductive ink composition according to claim 1, comprising a conductive flake material that has an aspect ratio of at least about 50:1.

18. (original) A conductive ink composition according to claim 1, comprising a conductive material selected from the group consisting of graphite, carbon fiber, mica coated with antimony tin oxide, mica coated with indium tin oxide, mica coated with a combination of antimony tin oxide and indium tin oxide, mica having intermediate layer of titanium dioxide and an outer layer of antimony tin oxide and/or indium tin oxide, and combinations thereof.

19. (original) A conductive ink composition according to claim 1, comprising a weight ratio of conductive particulate material to conductive flake material that is from about 1:1 to about 2:3.

Claims 20-42. (cancelled)

43. (New) A conductive ink composition, comprising a carboxylic acid- or anhydride-functional aromatic vinyl polymer and a conductive material selected from the group consisting of conductive metal oxide materials, metallic silver powders, metallic copper powders, bronze powders, metallic silver flakes, metallic copper flakes, bronze flakes, particulate and flake materials coated with metallic silver, particulate and flake materials coated with metallic copper, particulate and flake materials coated with bronze, particulate materials coated with members selected from the group consisting of antimony tin oxide, indium tin oxide, and combinations thereof, and combinations thereof.